

Logan Y. Nguyen

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ABOUT ME

- **Professional Interests:** Medicine, synthetic biology, bioinformatics, software development, data visualization, natural language processing, electronic health records
 - **Personal Interests:** History, linguistics, reading, writing, photography, filmography, running, soccer, rock climbing, skiing
 - **Legal Status:** United States Citizen
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SKILLS

- **Technologies:**
 - **Back-end:** C++, Java, Tcl/Tk, Bash/Unix/Linux
 - **Front-end:** HTML, CSS, Tcl/Tk, Adobe Photoshop, Adobe Illustrator
 - **Data science:** R, MATLAB
 - **Microcontrollers:** Arduino, Raspberry Pi
 - **Tools:** Git, VirtualBox, VMware EsXi
 - **Biotechnologies:**
 - **Microbiology:** MIC, Timekill, culturing, single PD/PK models
 - **Biochemistry:** GE, WB, PCR
 - **Proteomics:** MaxQuant, Perseus, Protein Prospector, ProSight PTM
 - **Molecular Dynamics:** Charmm, Packmol, NAMD, VMD, Pymol
 - **Music:** FL Studio, guitar, bass
 - **Languages:** English
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EMPLOYMENT

- **Organic Chemistry I & II Peer Mentor (09/2018 - current)**
Wayne State University, Organic Chemistry Learning Community
 - Explaining, teaching, and helping university students understand concepts involving chemical reactions, electronic structure, synthetic pathway design, reaction mechanisms, and 3D spatial manipulation.
 - Serving as a role model by teaching effective study methods, tips, and tricks.
 - Leading review sessions before exams and final exams.
 - **Anti-Infective Research Laboratory Student Assistant (05/2017 - 09/2017)**
Wayne State University, Eugene Applebaum College of Pharmacy and Health Sciences
 - Assisting with basic microbiology experiment preparation.
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EDUCATION

- **B.S. Biochemistry and Chemical Biology Honors & University Honors (09/2016 - current)**
Wayne State University, College of Liberal Arts and Sciences, Irvin D. Reid Honors College
 - Rotary Scholarship, President's Scholarship, Honors Scholarship, Mary G. Wood Endowed Scholarship, George H. Wheatley Memorial Scholarship

- 2017 Chair's List, top 3% in General Chemistry courses
- 2017, 2018, 2019 Dean's List, 3.96 GPA
- Honors thesis advisor: Dr. Charlie Fehl, Ph.D.
- 2018 ASBMB Certified
- **B.S. Computer Science (05/2019 - current)**
Wayne State University, College of Engineering
 - 2019 Dean's list, 4.0 GPA
- **High School Diploma (09/2012 - 05/2016)**
Grosse Pointe South High School
 - Sports: Soccer, Track and Field
 - Clubs: Interact, Bio Club, Drone Club, Particle Physics Club, DECA, NHS
 - Awards: National Latin Examination Maxima Cum Laude, Detroit Phi Beta Kappa, Senior Honors List, Academic Honor Roll, Advanced Placement Scholar with Distinction, The National Society of High School Scholars, Science Fair Winning Team
 - 4.10 GPA

LEADERSHIP

- **Wayne State University American Chemical Society Student Affiliates (05/2018 - current)**
Wayne State University
 - Vice President (05/2019 - current)
 - Assisting with chapter initiatives, logistics, planning, and overall operations.
 - Committee positions:
 - 2019 Guinness World Record Planning Committee Guinness: "World's Largest Periodic Table"
 - 2019 Annual Symposium Planning Committee
 - Outreach Coordinator (05/2018 - 05/2019)
 - Planned, created, and performed chemical demonstrations for the public.
 - Planned chemical company tours, volunteering events, and local community outreach events for chapter members.
- **VietMD Volunteer Coordinator (01/2017 - current)**
VietMD Clinic Detroit
 - Managing volunteer schedules, applications, and assignments.
- **Pre-Professional Medical Society (09/2016 - 12/2019)**
Wayne State University
 - Secretary (05/2019 - 12/2019)
 - Managed email and mobile communications, a participation point system, the organization's website and history, and printed and digital announcements.
 - Committee positions: Chair of the Membership Committee, Chair of the Website Committee, Member of the 2019 Networking Dinner Planning Committee
 - Awards: Honors Member
 - President (05/2018 - 05/2019)
 - Led an executive board, ran board meetings and member meetings, planned speaker events, served as a role model, facilitated group work, delegated tasks, organized events, created budgets and deadlines, conducted performance reviews, and lead the organization to an increase in membership.
 - Committee positions: Chair of the 2018 Networking Dinner Planning Committee
 - Awards: Honors Member

- President's Director (09/2017 - 05/2018)
 - Assisted with logistics, planning speakers, and running general body meetings.
 - Awards: Honors Member, Top Ten Member, Director of the Month of February
- Programming Officer's Director (09/2016 - 05/2017)
 - Updated the official website with event information and kept track of the participation points system and club members.
 - Awards: Honors Member, Top Ten Member, Director of the Month of March, Man of the Year
- **Rotaract Student Chapter (01/2017 - 05/2018)**
Wayne State University
 - Secretary (01/2018 - 05/2018)
 - Sent weekly digital event announcements and took board meeting minutes.
 - Treasurer (01/2017 - 05/2018)
 - Managed an annual budget and event budgets, and planned fundraisers.
- **Interact Student Chapter Vice President (05/2015 - 05/2016)**
Grosse Pointe South High School
 - Scheduled volunteering events, managed a points system, designed graphics, created agendas, ran club meetings.
- **Junior Varsity Soccer Captain (05/2015 - 05/2016)**
 - Led the team in practice and games, planned training exercises and drills, raised morale and team spirit.

BASIC RESEARCH

- **Undergraduate Researcher (09/2019 - current)**
Wayne State University, Department of Chemistry, Fehl Group
 - Principle Investigator: Dr. Charlie Fehl, Ph.D.
 - Designing and implementing a proteomic workflow for the identification and quantification of O-GlcNAc post-translational modifications.
 - Skills: MaxQuant, Protein Prospector, ProSight PTM, R, data visualization
- **Undergraduate Researcher (05/2018 - 09/2018)**
Wayne State University School of Medicine, Department of Obstetrics & Gynecology, Chen Lab
 - Principle Investigator: Dr. Kang Chen, Ph.D.
 - Developed an IACUC certified animal protocol testing the effect of Baicalin on the *mus musculus* CBA x DBA immune-mediated pregnancy loss model.
 - Skills: Literature search and summarization, regulatory navigation, experimental and budgetary design, animal husbandry and handling, and drug administration
- **Anti-Infective Research Laboratory Undergraduate Researcher (09/2017 - 08/2019)**
Wayne State University, Department of Pharmacy Practice, Anti-Infective Research Laboratory
 - Principle Investigator: Dr. Michael J. Rybak, Ph.D., Pharm.D., M.P.H.
 - Conducted numerous experiments accessing the pharmacokinetics and pharmacodynamics of antibiotics utilized in eliminating Gram-negative and Gram-positive microbial infections.
 - Awarded a UROP research funding award.
 - Skills: Minimum inhibitory concentration, combination minimum inhibitory concentration, time kill analysis, one-compartment pharmacodynamic modeling, pipetting, poster presentation
 - Abstracts:

- 28th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID). “Beta-Lactams Combinations with Glycopeptides: Synergy Screening against MRSA, hVISA, VISA and DNS.”
- IDWEEK 2018. “Evaluation of Meropenem(MEM) in Combination with Colistin(COL) Against Colistin Resistant Extensively Drug Resistant (XRD) Gram Negative Bacteria.”
- 29th ECCMID. “Glycopeptide and lipoglycopeptide combinations with beta-lactams against daptomycin susceptible and non-susceptible MRSA.”
- IDWEEK 2019. “In-Vitro Synergy of Colistin in Combination with Meropenem of Tigecycline against Multi-drug Resistant *Acinetobacter baumannii*.”
- 30th ECCMID. “In Vitro Antibacterial Activities of Cefiderocol (S-649266) against Multidrug-Resistant *Acinetobacter baumannii*.”
- Publications:
 - Abdul-Mutakabbir JC, Yim J, **Nguyen L**, Kebriaei R, Stamper K, Maassen P, Seyesenhamend J, Smith JR, Barber K, Singh N, Raut A, Kaye K, Rybak MJ. In-Vitro Synergy of Colistin in Combination with Meropenem of Tigecycline against Multi-drug Resistant *Acinetobacter baumannii*. *Antimicrobial Agents and Chemotherapy*. [Manuscript under review]
 - Kebriaei R, Rice S, Singh N, Stamper, K, **Nguyen L**, Sheikh Z, Rybak MJ. Combinations of Glycopeptides and Lipoglycopeptides with β -Lactams. *Journal of Antimicrobial Chemotherapy*. [Manuscript under review]
- **Richard J. Barber Interdisciplinary Summer Research Program (05/2017 - 10/2017)**
Wayne State University, Department of Physics, Kelly Group
Wayne State University, Department of Chemical Engineering, Potoff Group
 - Principle Investigators: Dr. Christopher V. Kelly, Ph.D., Dr. Jeffrey Potoff Ph.D.
 - Ran coarse-grained MARTINI molecular dynamic simulations of the lipid bilayer under positive and negative curvature to support experimental results that measured the rate, distribution, and diffusion of different membrane lipids.
 - Skills: Charmm, Packmol, NAMD, VMD, Tcl, MATLAB, grid parallel computing and job scheduling, data analytics and visualization, poster presentation

COMMUNITY VOLUNTEERING

- **Beaumont Health Volunteer (01/2017 - 08/2018)**
Beaumont Grosse Pointe Hospital
 - Serving, greeting, transporting, helping, and informing hospital patients and visitors.
 - Departments: Emergency Center (01/2017 - 10/2017), Patient Transport (10/2017 - 01/2018), Radiology Department (01/2018 - 08/2018)
- **VietMD Clinic Detroit Volunteer (12/2015 - current)**
 - Greeting and directing patients, taking patient vitals, collecting patient information, managing EHR, contacting local hospitals, clinics, and pharmacies.
- **826 Michigan Tutoring (09/2017 - 12/2017)**
 - Tutoring local Detroit Public School System students in math, english, and reading each week in an afterschool program.
- **Michigan Science Olympiad Volunteer**
 - Proctored and graded the “Protein Modeling” session.

- **American Chemical Society (01/2017 - current)**
Detroit Local Section
Wayne State University Student Section
 - AP Day, STEM Day, Girl Scout Chemistry Day, Cranbrook, Science Museum, C2-Pipeline Engineering Fair.
- **Wellness Warriors (01/2017 - 04/2017)**
Wayne State University Pharmacy
 - Performed finger blood draws on university employees.
- **PPMS (09/2016 - current)**
 - Detroit Rescue Mission, Rippling Hope, Gleaners Food Bank, DP Day, Hot Chocolate Run.
- **Rotaract Student Chapter (09/2016 - 05/2018)**
Wayne State University
 - Urban gardening.
- **Interact (09/2012 - 05/2016)**
Grosse Pointe South High School
 - Flint Water Drive, Gleaners Food Bank, Service for Older Citizens, Run the Pointe, The Grosse Pointe Run, Save the Children.

EXTRACURRICULARS

- **Our Lady of Grace Choir (12/2014 - current)**
 - Guitar performance in the style of contemporary Vietnamese Catholic songs and hymns.
- **Chemistry Industry Mentorship Program (09/2019 - current)**
 - Selected and mentored by a materials R&D executive
- **VietMix Band (11/2017 - 03/2018)**
 - Guitar performance in the style of Vietnamese ballads, softrock, chachacha, tango, and dance.
- **Beaumont Health Summer Shadowing Program (05/2018 - 07/2018)**
 - Actively shadowed a variety of physicians throughout their day.
- **Macomb Future DOc's Program (01/2016 - 05/2016)**
Michigan State University College of Osteopathic Medicine
 - Selected and given mentorship and clinical exposure into the medical field.

REFERENCES

Available on request